

POWER SUPPLY**Abstract of the Disclosure**

5 A power supply particularly suitable for high-speed optical data transmission employs readily available components to achieve desired voltage tolerances. More specifically, a voltage signal supplied to a load is converted into a digital signal and provided to a processor that derives a digital correction signal from the digital signal. The digital correction signal is then converted to an analog correction signal and is used by a feedback control circuit in the power supply to regulate the output voltage.